

## ABSTRACT

In fluorescent endoscopic examinations, excitation light and light adjusted by an adjuster filter are alternately projected to an object under observation, the fluorescence light is received by one channel out of three channels by disposing barrier filters before a black-and-white CCD, or received without any filter by the channel of a color CCD which does not react with excitation light but with the fluorescent light, the light adjusted by an adjuster filter is received by the other two channels to capture the background image, the signals sent through the three channels are combined, and the fluorescent image is superimposed on the background image on a monitor. Thus, a sharp fluorescent image and bright field of view are formed and viewed on the same screen simultaneously, and the portions where fluorescence is emitted can be easily specified in the background.